Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (withdrawn) A method for producing a vaccine containing an immunogenic determinant, comprising the steps of:
- a) exposing extra-cellular pathogenic organisms to stress-inducing stimuli which would induce the production of stress protein/antigenic peptide fragment complexes;
 - b) extracting the endogenous stress-induced products from the treated cells; and
 - c) using the extracted products as the immunogenic determinant in the preparation of the vaccine composition.
- 2. (withdrawn) The method as claimed in claim 1, wherein the active ingredient of the immunogenic determinant predominantly comprises one or more shock protein/antigenic peptide fragment complexes.
- 3. (withdrawn) The method as claimed in claim 1, wherein the stress-inducing stimulus is heat.
- 4. (withdrawn) The method as claimed in claim 3, wherein the pathogenic organism is heated to from 5 to 8°C above the normal temperature for cultivation of the organism.
- 5. (withdrawn) The method as claimed in claim 1, wherein the pathogenic organism is an extra-cellular procaryotic or protozoan species.
- 6. (withdrawn) The method as claimed in claim 1, wherein the pathogenic organism is a bacterial, protozoal or fungal species.

- 7. (withdrawn) The method as claimed in claim 1, wherein the immunogenic determinant is a mixture of heat shock protein/antigenic peptide fragment complexes.
- 8. (withdrawn) The method as claimed in claim 1, wherein the extra-cellular pathogenic organism has been modified to induce or enhance the induction of the synthesis of stress proteins.
- 9. (withdrawn) The method as claimed in claim 1, wherein the method is carried out in vitro.
- 10. (currently amended) A composition for inducing an immune response to a pathogenic bacteria, the composition comprising one or more endogenous complexes produced in-situ and extracted from the pathogenic bacteria, which complexes are formed between an induced heat shock protein derived from the pathogenic bacteria and an antigenic peptide fragment which is also derived from the pathogenic bacteria wherein production of the induced heat shock protein results from the exposure of the pathogenic bacteria to a stress-inducing heat shock stimulus, and wherein the formation of the endogenous_complex between the induced heat shock protein and the antigenic peptide fragment is accomplished in an ATP-dependent reaction.
- 11. (previously presented) A composition for inducing an immune response to a pathogenic bacteria, produced by the method comprising the steps of:

exposing a pathogenic bacteria to a stress-inducing heat shock stimulus which induces the production of endogenous heat shock protein/antigenic peptide fragment complexes formed in situ by said bacteria, wherein the formation of the endogenous in-situ complexes between the induced heat shock protein and the antigenic peptide fragment is accomplished in an ATP-dependent reaction;

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extracting the endogenous_complexes from said bacteria to provide a composition for inducing an immune response to the pathogenic bacteria comprising said extracted complexes.

- 12. (previously presented) The composition as claimed in claim 10, wherein the composition comprises an adjuvant for the one or more complexes.
- 13. (previously presented) The composition as claimed in claim 10, which is an aqueous composition wherein the composition comprises an aqueous carrier.
- 14. (previously presented) A method for inducing an immune response in an animal against infection by a pathogenic bacteria comprising administering a pharmaceutically acceptable quantity of a composition for inducing an immune response as claimed in claim 10 sufficient to elicit an immune response in the animal to said pathogenic bacteria.
- 15. (withdrawn) A method for eliciting an immune response from an animal to infection by an intra-cellular pathogenic organism the method comprising:

administering a vaccine containing an immunogenic determinant, the immunogenic determinant being a stress protein/antigenic peptide fragment complex produced in situ from the intra-cellular pathogen, the synthesis of the complex being induced by external stress stimuli or by genetic modification of the pathogen so as to render its synthesis constitutive.

- 16. (canceled).
- 17. (previously presented) The composition according to claim 10, wherein said complexes are obtained by exposing the pathogenic bacteria to heat shock.
- 18. (canceled).